

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P650777

Luminaire Tested: **GALN-SA3C-840-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-840-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15898.2 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

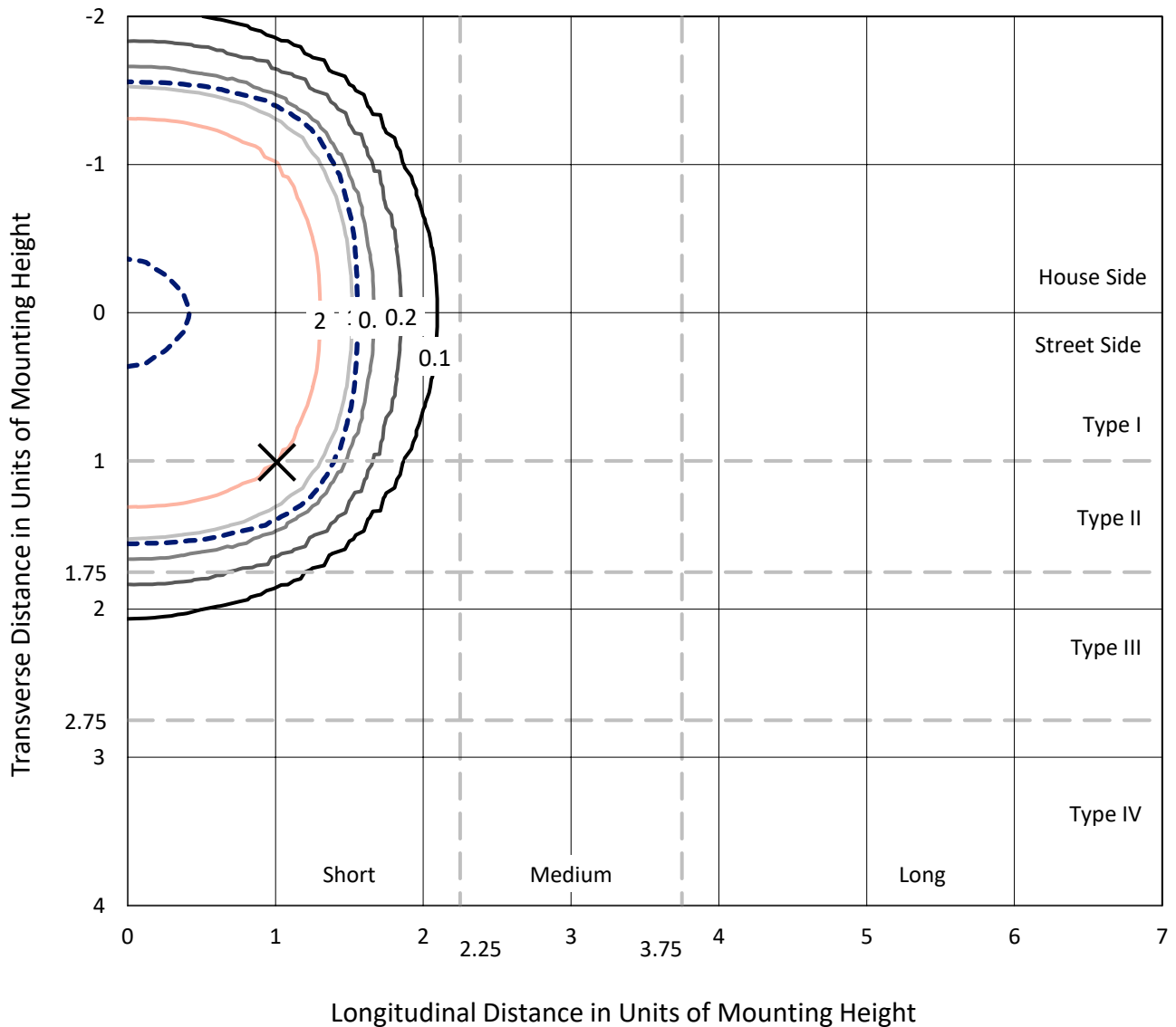
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

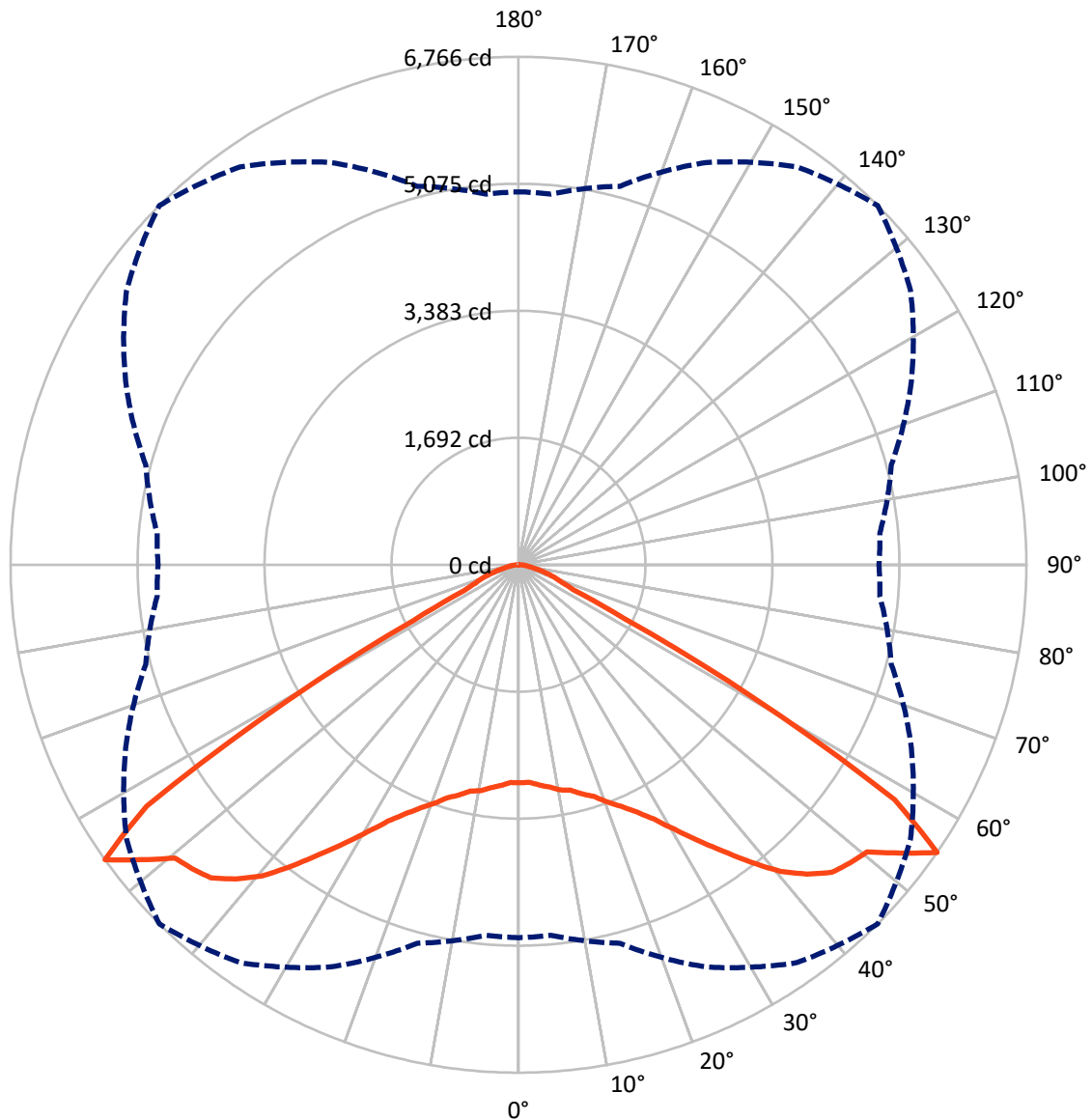
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7949.1	0.0	7949.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7949.1	0.0	7949.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	15898.2	0.0	15898.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.6	1.8
10°-20°	898.5	5.7
20°-30°	1675.4	10.5
30°-40°	2805.2	17.6
40°-50°	4365.1	27.5
50°-60°	4532.4	28.5
60°-70°	961.2	6.0
70°-80°	316.5	2.0
80°-90°	60.3	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	15898.2	100.0
0°-180°	15898.2	100.0

Coefficient of Utilization



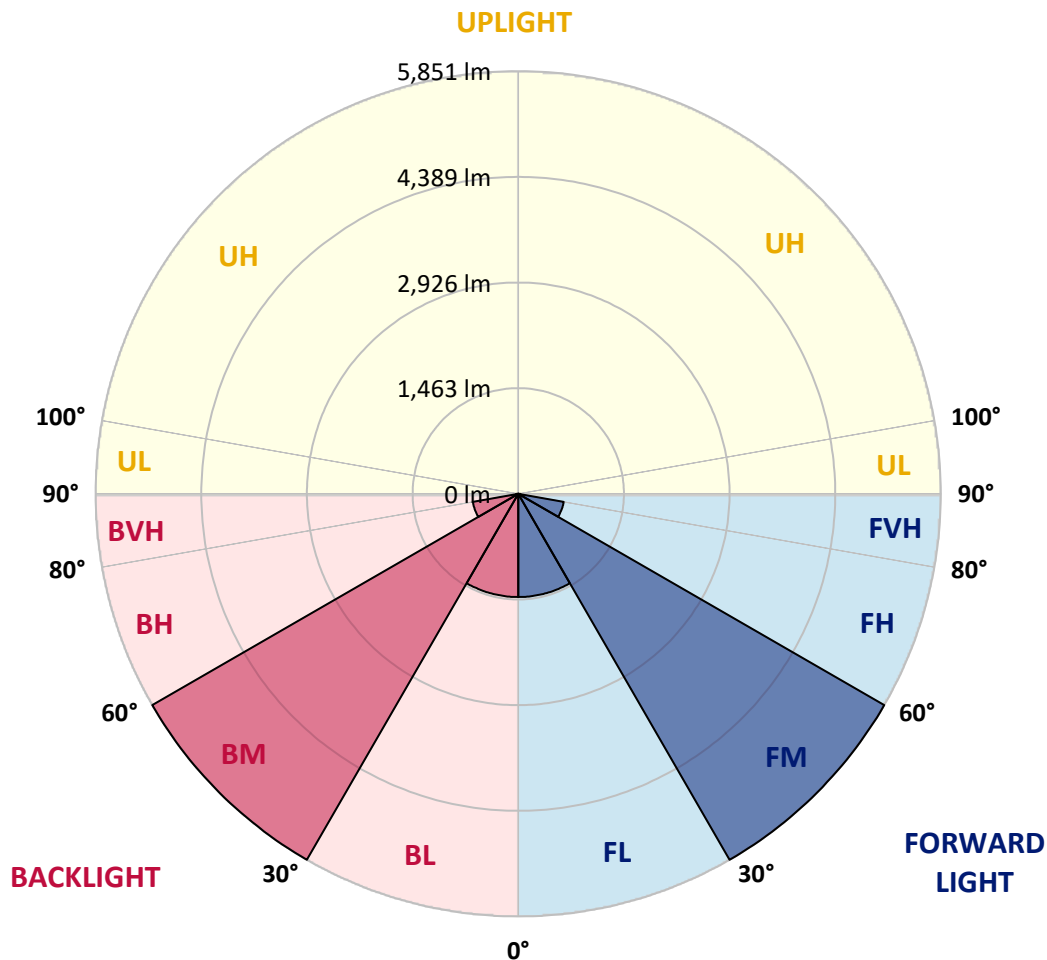
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1428.8	9.0			
FM (30°-60°)	5851.4	36.8			
FH (60°-80°)	638.9	4.0			G0/660
FVH (80°-90°)	30.1	0.2			G1/100
BL (0°-30°)	1428.8	9.0	B3/2500		
BM (30°-60°)	5851.4	36.8	B4/8500		
BH (60°-80°)	638.9	4.0	B2/1000		G0/660
BVH (80°-90°)	30.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2902.8	2902.8	2902.8	2902.8	2902.8	2902.8	2902.8	2902.8	2902.8	2902.8	2902.8
2.5°	2937.4	2923.9	2900.9	2918.2	2931.6	2902.8	2914.3	2920.0	2916.3	2900.9	2906.7
5°	2979.7	2971.9	2952.8	2966.2	2948.9	2948.9	2937.4	2922.0	2945.0	2941.2	2950.8
7.5°	2979.7	2970.0	3008.4	2983.4	2991.2	2991.2	2971.9	2956.5	2968.1	2950.8	2941.2
10°	3039.2	3052.7	3035.3	3041.1	3037.3	3050.7	3021.9	3012.3	3002.7	2996.9	2985.4
12.5°	3110.3	3100.7	3106.4	3102.6	3116.0	3081.4	3064.2	3043.0	3060.3	3035.3	3052.7
15°	3167.9	3162.2	3167.9	3183.3	3169.8	3167.9	3137.2	3116.0	3089.2	3094.9	3068.0
17.5°	3246.7	3240.9	3242.8	3256.3	3254.3	3244.7	3221.7	3181.3	3171.7	3156.4	3139.1
20°	3363.8	3354.2	3350.4	3356.2	3365.8	3373.4	3327.3	3311.9	3279.3	3254.3	3225.6
22.5°	3463.7	3459.9	3475.3	3450.3	3471.4	3494.5	3450.3	3442.6	3361.9	3348.4	3317.7
25°	3602.1	3596.3	3586.7	3623.2	3648.2	3646.2	3604.0	3561.7	3500.2	3484.9	3484.9
27.5°	3748.1	3715.5	3765.3	3775.0	3819.1	3832.6	3796.1	3734.6	3677.0	3644.3	3652.0
30°	3930.6	3899.8	3911.3	3980.5	4038.1	4088.1	3995.9	3905.6	3825.0	3767.3	3757.7
32.5°	4113.1	4082.4	4116.9	4184.1	4299.4	4374.4	4284.1	4126.5	4032.4	3947.9	3965.1
35°	4261.0	4284.1	4339.8	4441.6	4560.7	4681.8	4537.6	4416.6	4282.1	4188.0	4201.5
37.5°	4499.2	4570.3	4614.5	4731.6	4900.8	5025.6	4875.8	4718.3	4574.1	4451.2	4408.9
40°	4810.4	4858.5	4908.4	5046.8	5246.5	5371.4	5229.3	5023.7	4881.5	4754.8	4749.0
42.5°	5152.4	5198.5	5250.4	5419.4	5538.6	5632.7	5502.1	5392.6	5235.0	5135.1	5129.3
45°	5550.1	5517.4	5575.1	5686.4	5786.3	5847.8	5763.3	5709.5	5596.2	5503.9	5494.3
47.5°	5815.2	5786.3	5890.1	5990.0	6005.3	5938.1	5955.5	6005.3	5886.2	5734.5	5782.5
50°	5968.8	5968.8	6038.0	6130.2	6101.5	6015.0	6151.4	6155.2	6036.1	5901.6	5901.6
52.5°	5701.8	5761.4	5957.3	6259.0	6355.0	6380.0	6349.2	6218.6	5907.4	5632.7	5619.2
55°	4968.0	4954.5	5219.7	5911.2	6470.2	6766.1	6374.2	5772.9	5140.9	4831.5	4800.8
57.5°	3231.3	3246.7	3642.4	4347.5	5356.0	5907.4	5246.5	4401.2	3642.4	3215.9	3256.3
60°	1454.3	1506.1	1746.3	2272.6	3139.1	3588.6	3146.8	2387.9	1832.7	1590.7	1611.8
62.5°	835.7	845.3	854.9	1014.3	1337.1	1581.1	1389.0	1071.9	945.2	902.9	902.9
65°	705.0	699.3	701.2	714.7	749.2	799.2	778.0	749.2	753.0	749.2	743.4
67.5°	599.4	607.0	601.3	610.9	612.8	620.5	633.9	645.5	647.4	651.3	647.4
70°	491.8	493.8	497.5	505.3	507.2	512.9	532.2	541.8	547.5	547.5	555.2
72.5°	376.5	374.6	378.4	386.1	395.8	397.7	414.9	428.4	436.1	426.5	428.4
75°	247.8	249.8	255.5	261.3	274.8	288.1	293.9	307.4	309.3	313.1	303.5
77.5°	147.9	151.8	157.5	169.0	180.6	192.1	205.5	215.1	219.0	215.1	203.6
80°	96.0	96.0	103.8	113.4	126.8	136.4	144.1	151.8	157.5	151.8	147.9
82.5°	59.5	59.5	69.1	80.7	90.3	96.0	107.6	117.2	123.0	119.1	113.4
85°	30.7	32.6	40.4	50.0	57.6	61.5	59.5	53.8	48.0	46.1	42.3
87.5°	9.6	9.6	11.5	11.5	9.6	9.6	11.5	9.6	11.5	11.5	11.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)